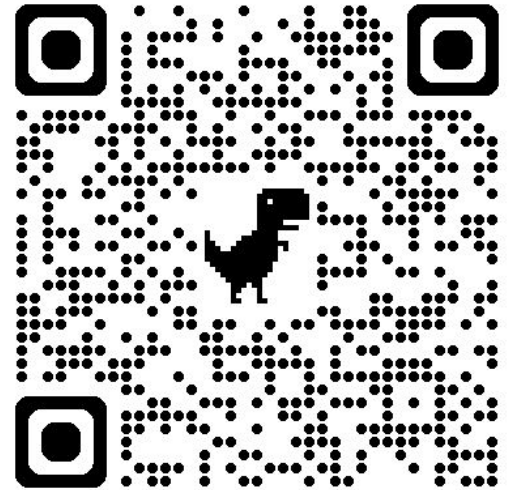


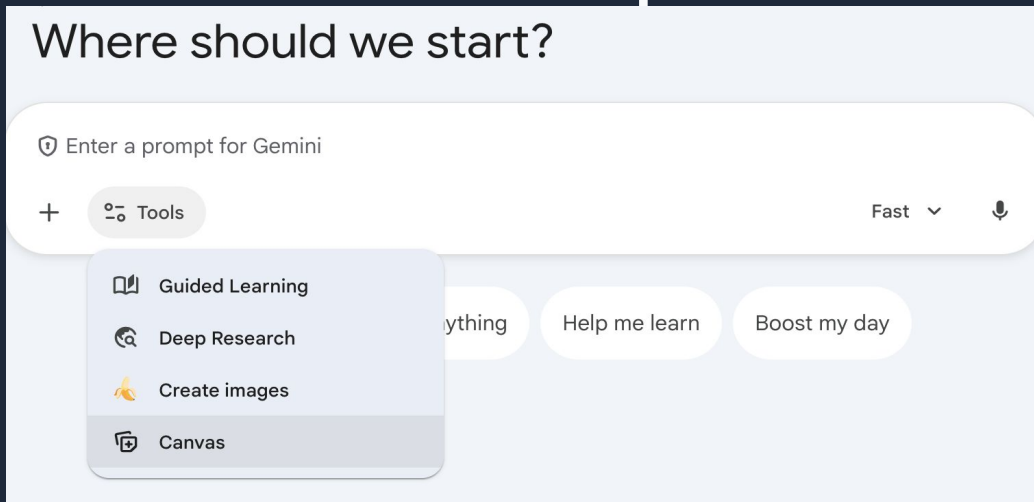
Build-Your-Own Tools: Simple AI Projects for the Classroom

Building Custom HTML Tools with Google Gemini

Aaron Blersch



Meet Your Co-Developer: Gemini



The Canvas Workflow

Google Gemini's Canvas feature provides a side-by-side workspace to write, refine, and preview code. It allows teachers to act as "Architects," directing the AI to build functional software without needing to write a single line of code manually.





my classroom plays a vocabulary game called the fly swatter game. I put vocab words scatted on white board, read a definition, and two students compete to slap the vocab word matching to the definition the teacher read. I want an html file for an app that I can add words and definitions, when I hit play is scatters these vocab words on the screen. The definition is shown at the bottum of the screen, and only hitting the correct vocab word moves to the next one (while saying a green correct) hits on wrong answers result in a red incorrect. Allow for saving vocab sets.



Let's write or build together



Fast ▾



Code

Preview

Share



FLY SWATTER GAME

Create New Vocabulary Set

Set Name (e.g., Biology Ch. 1)

Word

Definition

+ Add Word

Save Set

Saved Sets

geometry

5 words

Play

Edit

Delete



Classroom Utility Spotlight



Name Randomizer

Eliminate bias and increase engagement with a simple tool to randomly call on students with one click.



Group Generator

Custom logic to sort groups by size, student behavior, or specific help/leadership dynamics.



Sticky Note Game

Automate random point values for classroom games, turning a physical chore into a digital delight.

Classroom Utility Spotlight



Name Randomizer

Eliminate bias and increase engagement with a simple tool to randomly call on students with one click.

Example Prompt: Create an HTML File in which I can create different classes, type student rosters into the class, and it saves. I want this program to randomly select a student (replacing popsicle sticks)

Manage Class Rosters

Trial Neta Class

+ New Class

Delete Class

Paste names below (one student per line). Changes save automatically when you click "Save".

Student 1
Student 2
Student 3
Student 4
Student 5

Save Roster

Play Mode

Edit Classes

Current Class: Trial Neta Class

Reset Pool

Student 2

Remaining: 5

Total: 5

PICK STUDENT

Got it

Skip / Absent

Classroom Utility Spotlight



Group Generator

Custom logic to sort groups by size, student behavior, or specific help/leadership dynamics.

Class: Neta Class Trial Target Group Size: 3 [+ Generate Groups](#)

Tap tags to toggle. These settings are hidden in Group View.

| | | | |
|---|--|---|---|
| Student 1 Absent Behavior High Flyer Support | Student 2 Absent Behavior High Flyer Support | Student 3 Absent Behavior High Flyer Support | Student 4 Absent Behavior High Flyer Support |
| Student 5 Absent Behavior High Flyer Support | Student 6 Absent Behavior High Flyer Support | Student 7 Absent Behavior High Flyer Support | Student 8 Absent Behavior High Flyer Support |
| Student 9 Absent Behavior High Flyer Support | Student 10 Absent Behavior High Flyer Support | | |

Example Prompt: Create an HTML File in which I can create different classes, type student rosters into the class, and it saves. I want this program to select groups of students of a size I can customize. Allow me to assign students attributes (behavior issue, absent, high flyer, or needs support).

Classroom Utility Spotlight

Review Game Scoreboard

Team 67

25

Random Points

Team 2

-9

Random Points

Pink Flamingos

11

Random Points




Sticky Note Game

Automate random point values for classroom games, turning a physical chore into a digital delight.


Classroom Utility Spotlight

Trig Rush

Master your trigonometric ratios under pressure!

 Race against the clock!

 Build streaks for up to 4x score multiplier!

 Wrong answers cost you a 2-second penalty.

SELECT GAME MODE

Ratio Definitions (SOH CAH TOA & x,y,r) 

TIME LIMIT

1 Minute 

 Start Rush

HIGH SCORE (RATIOS - 1M)

0



Flash Card Replacement

-Because Quizlet thinks they are slick charging us to use flashcards.

Hosting and Access Strategies

Local Use

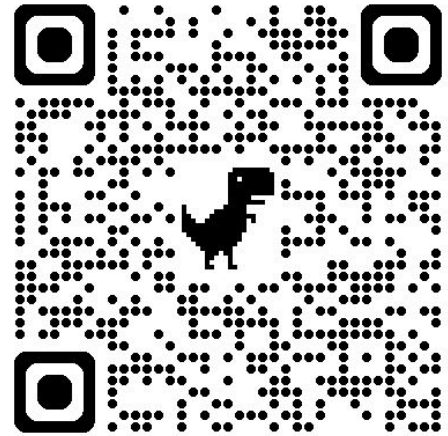
Download the HTML file directly from Gemini.
Double-click the file to open it in your browser.
Perfect for "teacher-led" tools like randomizers.

Web Hosting

Upload the file to Google Sites. Use the **Embed Code** feature to paste your HTML. This creates a permanent URL for student access on any device.

Tips & Tricks

- >_ Not working? Tell your assistant what is wrong.
- >_ Not limited to digital tools "Create a physical paper based game....."
- >_ Not satisfied with the result (formatted weird, notation wonky, etc...) TELL THE AI!
- >_ "Iterate, you won't always like the first outcome.
- >_ Overwhelmed by the coding lingo? Ask your AI assistant for help implementing your ideas! "Explain it to me like I'm a middle schooler trying to accomplish xyz"



Let's Build Together

For Slideshow & HTML Files

